INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/35050

| A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : HOU 15/00 US CL : 370/464 | | | | |
|--|--|--|---|--|
| According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED | | | | |
| | | by classifi | cation symbols) | |
| Minimum documentation searched (classification system followed by classification symbols) U.S.: 370/464, 310, 252, 302, 315, 315, 332, 341, 343, 464 | | | | |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched | | | | |
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| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) | | | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | | | |
| Category * | Citation of document, with indication, where a | ppropriate, | of the relevant passages | Relevant to claim No. |
| A | US 5,214,788 A (DELAPERRIERE et al) 25 May 1993, Figure 2. | | | 1-47 |
| A | US 4,509,205 A (CARPE et al) 02 April 1985, Abstract. | | | 1-47 |
| A | US 4,723,302 A (FULMER et al) 02 February 1988, Abstract. | | | 1-47 |
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| Further | documents are listed in the continuation of Box C. | | See patent family annex. | |
| Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance. | | alo | "T" later document published after the international filing date or priority date and not in conflict with the application but clied to understand the principle or theory underlying the invention | |
| | plication or patent published on or after the international filling date | *X* | document of particular relevance; the considered novel or cannot be consider when the document is taken alone | cisimed invention cannot be ed to involve an inventive step |
| | which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as | "Y" document of particular relevance; the elaimed invention exanct be considered to involve an inventive step when the document is | | |
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| "P" decement published prior to the international filing date but later than the priority date claimed | | | decument member of the same potent | Samily |
| Date of the actual completion of the international search | | Date of mailing of the international search report | | |
| 26 April 2004 (26.04.2004) | | | | |
| Name and mailing address of the ISA/US Mail Stop PCT, Attn; ISA/US | | Authorized officer fre Sule-Killy | | |
| Commissioner for Patents | | | | |
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| Form PCT/ISA/210 (second sheet) (July 1998) | | | | |